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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,576	03/01/2002	Richard P. Mangold	884.622US1	3907

7590

10/05/2005

Crystal D. Sayles
c/o BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
12400 Wilshire Boulevard
Seventh Floor
Los Angeles, CA 90025

EXAMINER

DADA, BEEMNET W

ART UNIT

PAPER NUMBER

2135

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/087,576

Applicant(s)

MANGOLD ET AL.

Examiner

Beemnet W. Dada

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-25 have been examined.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 1-25 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

4. Claims 1, 5, 8, 11 and 14 are directed to a method/system/machine accessible medium.

The examiner respectfully asserts that the claimed subject matter does not fall within the statutory classes listed in 35 USC 101. Thus, while the claimed invention may be labeled as method/system/machine accessible medium, it is in fact functional descriptive material (i.e., computer program, see for example specification page 2, paragraph 0004). Claim 1, 5, 8, 11 and 14 are rejected as being functional descriptive material (i.e., computer program). Claims 2-4, 6, 7, 9, 10, 12, 13, 15 and 16-19 depend on claims 1, 5, 8, 11 and 14 and are rejected under the same rationale.

5. Claim 20 is directed to a data structure. The examiner respectfully asserts that the claimed subject matter does not fall within the statutory classes listed in 35 USC 101. Thus, while the claimed invention may be labeled as data structure, it is in fact non-functional descriptive material (i.e., abstract idea). Claim 20 is rejected as being non-functional descriptive material (i.e., abstract idea). Claims 21-25 depend on claim 20 and are rejected under the same rationale.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Gray et al. US Patent 5,805,705 (hereinafter Gray).

8. As per claims 1 and 14, Gray teaches a method, comprising:

parsing a data stream to find a predefined synchronization point (i.e., header, see figure 5) within the data stream (i.e. receive packet and read header field, column 5, lines 23-29); and
placing non-compliant data near the synchronization point in the data stream (i.e.,
placing synchronization bit (KSB) in near the header, column 4, lines 46-58);

wherein the data stream is decodable by a compliant decoder, after the non-compliant data is replaced with compliant data (i.e., decrypting data with the new replaced key) [column 5, lines 23-35].

9. As per claim 5, Gray teaches a method, comprising:

receiving a portion of a data stream, parsing the portion of the data stream to find a synchronization point within the data stream (i.e. receive packet and read header field, column 5, lines 23-29);

retrieving non-compliant data near the synchronization point [column 4, lines 46-58 and column 5, lines 23-30]; and

decrypting the portion of the data stream [column 5, lines 30-35].

10. As per claim 8, Gray teaches a system, comprising:

an authoring device (i.e., source node) to use key information to encrypt a portion of a data stream [column 2, lines 50-67]; and

a consumption device (i.e., destination node) in communication with the authoring device, the consumption device to use the key information to decrypt the portion of the data stream [column 2, lines 50-67].

11. As per claim 11, Gray teaches a system, comprising:

an authoring device to create a data stream [column 2, lines 50-56];

an encryption tool to embed key information near each synchronization point in the data stream and to encrypt a portion of the data stream associated with each synchronization point [column 4, lines 49-67]; and

a consumption device to retrieve key information near each synchronization point in the data stream and to replace the key information with compliant data and to use the key information to decrypt the data stream [column 5, lines 23-34].

12. As per claims 20 and 24-25, gray teaches

a data structure, comprising:

a header (figure 5, header section);

key information associated with the header for use in decryption (figure 5, key synch.

Bit); and

a payload associated with the header, the payload capable of being encrypted using the key information [figure 5, data field and column 5, lines 7-16].

13. As per claim 2, Gray further teaches the method further comprising:
encrypting a portion of the data stream, and transmitting the portion of the data stream [column 5, lines 7-16].
14. As per claim 3, Gray further teaches the method further comprising:
decrypting the portion of the data stream [column 5, lines 23-34].
15. As per claims 4 and 6, Gray further teaches the method further comprising:
wherein the non-compliant data is key information (i.e., KSB value associated with current or next key value) that is used in encrypting and decrypting [column 4, lines 49-57].
16. As per claims 7, 9, 10, 12, 13, 21 and 22, Gray further teaches the method further comprising:
replacing the non-complaint data near the synchronization point with complaint data, and decoding the portion of the data stream [column 5, lines 23-34].
17. As per claims 15 and 16, Gray further teaches the method further comprises: parsing the second data stream to find each PES header, embedding key information into each portion of the second data stream after each PES header, and encrypting each portion of the second data stream [column 4, lines 47-67].

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18. As per claims 17-19 and 23, Gray further teaches the method further comprises:

retrieving key information from a portion of the second data stream, decrypting the portion of the second data stream with the key information, and replacing the key information with compliant data in the portion of the second data stream [column 5, lines 17-35].

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO Form 892.

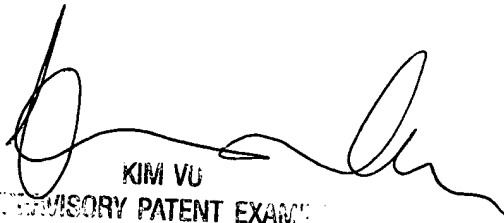
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beemnet W. Dada whose telephone number is (571) 272-3847. The examiner can normally be reached on Monday - Friday (9:00 am - 5:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Beemnet Dada

September 29, 2005


KIM VU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100